INTERNATIONAL SEARCH REPORT

International application No.

	IN LEXIMITONAL SEARCH REPORT		PCT/JP20	04/004696			
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ C07K16/28, Cl2N15/62, A61K39/395, A61P1/04, 1/16, 3/10, 5/14, 7/00, 7/04, 7/06, 11/06, 15/08, 17/00, 17/06, 21/04, 25/00, 27/02, 29/00, 35/00, 35/02, 37/02, 43/00 According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELI	OS SEARCHED	acification ayarbal					
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C07K16/28, C12N15/62, A61K39/395, A61P1/04, 1/16, 3/10, 5/14, 7/00, 7/04, 7/06, 11/06, 15/08, 17/00, 17/06, 21/04, 25/00, 27/02, 29/00, 35/00, 35/02, 37/02, 43/00							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) MEDLINE(STN), BIOSIS(STN), WPIDS(STN), JICST FILE(JOIS), SwissProt/PIR/GeneSeq, Genbank/EMBL/DDBJ/GeneSeq							
C. DOC	IMENTS CONSIDERED TO BE RELEVANT			·			
Catego	ry* Citation of document, with indication, where ap	propriate, of the re	evant passages	Relevant to claim No.			
X	27 December, 2001 (27.12.01),			1,2,4-13 3			
X	21 March, 2002 (21.03.02),	& JP 2004-508420 A & EP 1328320 A2					
X				1,2,4-13 3			
X Eur	ther documents are listed in the continuation of Box C.	See patent	family annex.				
				mational filing date or priority			
"A" doc	cial categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	date and not the principle	in conflict with the application or theory underlying the in	ation but cited to understand			
_	lier application or patent but published on or after the international ng date	"X" document of considered	particular relevance; the convel or cannot be consid	laimed invention cannot be lered to involve an inventive			
"L" doc	nguate which may throw doubts on priority claim(s) or which is to establish the publication date of another citation or other cial reason (as specified)	step when the	e document is taken alone particular relevance: the C				
"O" doo	sument referring to an oral disclosure, use, exhibition or other means sument published prior to the international filing date but later than the prity date claimed	combined w being obvious	ith one or more other such is to a person skilled in the ember of the same patent f	documents, such combination			
Date of t	he actual completion of the international search July, 2004 (06.07.04)	Date of mailing 27 Jul	of the international searcy, 2004 (27.0	rch report 07.04)			

Authorized officer

Telephone No.

Form PCT/ISA/210 (second sheet) (January 2004)

Name and mailing address of the ISA/ Japanese Patent Office

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 02/04021 A1 (IDEC Pharmaceuticals Corp.), 17 January, 2002 (17.01.02), & JP 2004-502742 A & EP 1305045 A1 & US 2002/0028178 A1	1,2,4-13
X Y	JP 2001-518930 A (Immunomedics, Inc.), 16 October, 2001 (16.10.01), & WO 98/42378 A1 & EP 969866 A1 & US 2002/0071807 A1	1,4,6-11 2,3,5,12,13
X Y	JP 2002-544173 A (Immunomedics, Inc.), 24 December, 2002 (24.12.02), & WO 00/67795 A1 & EP 1178826 A1	1,4,6-11 2,3,5,12,13
X Y	JP 10-505231 A (Immunomedics, Inc.), 26 May, 1998 (26.05.98), & WO 96/04925 A1 & EP 771208 A1 & US 5789554 A	1,4,6-11 2,3,5,12,13
Y	HOLLIGER P. et al., "Diabodies": small bivalent and bispecific antibody fragments., Proc.Natl. Acad.Sci.USA., 1993, No.90, Vol.14, p.6444-8	2,3,5,12,13
P, X	WO 03/33654 A2 (ROSSI Edmund), 24 April, 2003 (24.04.03), & US 2003/0148409 A1	1-13

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Box No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sheet)
1. With re invention	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, the international search was carried out on the basis of:
a type	e of material
	a sequence listing
	table(s) related to the sequence listing
b. for	nat of material
	in written format
	in computer readable form
c. tim	e of filing/furnishing
. [contained in the international application as filed
	filed together with the international application in computer readable form
, c	furnished subsequently to this Authority for the purposes of search
<u>ا</u> ۔	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed
2. 🔀 I	r furnished, the required statements that the information in the subsequent or additional copies is identical to that in the
i a	pplication as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Addition	nal comments:
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: It is recognized that degraded antibodies recognizing CD22, i.e., the matter common to claims 1 to 13, have been publicly known (see, if needed, WO98/42378). Thus, the above common matter cannot be considered as a special technical feature. Such being the case, the inventions as set forth in claims 1 to 13 cannot be regarded as a group so linked as to form a single general inventive concept. Thus, the inventions as set forth in claims 1 to 13 are classified into the following 4 groups of inventions: (1) a degraded antibody having the amino acid sequence represented by SEQ ID NO:1, (2) a degraded antibody having the amino acid sequence represented by SEQ ID NO:3, (continued to extra sheet)			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers			
only those claims for which fees were paid, specifically claims Nos.:			
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: The parts relating to SEQ ID NO:1 in claims 1 to 13			
Remark on Protest The additional search fees were accompanied by the applicant's protest.			
No protest accompanied the payment of additional search fees.			

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Continuation of Box No.III of continuation of first sheet(2)
(3) a degraded antibody having CDR of SEQ ID NO:5 and the amino acid sequence represented by SEQ ID NO:7, and (4) a degraded antibody having CDR of SEQ ID NO:9 and the amino acid sequence represented by SEQ ID NO:11.
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